

Editorial Board

Chairman of the board:
Malcolm S. M. Watts, San Francisco

Allergy:
M. Coleman Harris, San Francisco
Norman Shure, Los Angeles

Anesthesiology:
John P. Bunker, Palo Alto
John B. Dillon, Los Angeles

Dermatology and Syphilology:
Rees B. Rees, San Francisco
Richard B. Stoughton, La Jolla

Ear, Nose and Throat:
Paul H. Ward, Los Angeles
Mansfield F. W. Smith, San Jose

Eye:
David O. Harrington, San Francisco
Robert M. Sinsky, Santa Monica

General Practice:
Frank W. Norman, Santa Rosa
Robert L. Hippen, San Diego

General Surgery:
William P. Longmire, Jr., Los Angeles
Richard E. Gardner, San Francisco

Industrial Medicine and Toxicology:
Homer S. Elmquist, Los Angeles
Charles H. Hine, San Francisco

Internal Medicine:
Varner J. Johns, Jr., Loma Linda
J. Edward Berk, Irvine
Robert J. Bolt, Davis
Donald W. Petit, Los Angeles
Edgar Wayburn, San Francisco
Marcus A. Krupp, Palo Alto
Nathan J. Zwaifler, San Diego

Neurology:
Robert A. Fishman, San Francisco
Pierre Dreyfus, Davis

Obstetrics and Gynecology:
William J. Dignam, Los Angeles
Ernest W. Page, San Francisco

Orthopedics:
Paul E. McMaster, Beverly Hills
John A. Blosser, Oakland

Pathology and Bacteriology:
Stuart Lindsay, San Francisco
Averill A. Liebow, San Diego

Pediatrics:
Henry R. Shinefield, San Francisco
Paul F. Wehrle, Los Angeles

Pharmacology:
Kenneth L. Melmon, San Francisco
Sydney M. Finegold, Los Angeles

Physical Medicine:
Elizabeth S. Austin, Los Angeles
Gregory Bard, San Francisco

Plastic Surgery:
Richard L. Dakin, San Rafael
N. John Wilde, Fresno

Psychiatry:
Leon J. Epstein, San Francisco
Norman Q. Brill, Los Angeles

Public Health:
Edward Lee Russell, Santa Ana
Louis F. Saylor, Berkeley

Radiology:
Alexander R. Margulis, San Francisco
Robert B. Engle, Pasadena

Thoracic and Cardiac Surgery:
Beatty H. Ramsay, Los Angeles
Norman E. Shumway, Jr., Palo Alto

Urology:
Thomas F. Conroy, San Mateo
Ruben F. Gittes, La Jolla

EDITOR MALCOLM S. M. WATTS, M.D.
ASSOCIATE EDITOR LLOYD H. SMITH, JR., M.D.
MANAGING EDITOR ROBERT F. EDWARDS

Policy Committee — Editorial Board

JEAN F. CRUM Downey
THOMAS N. ELENORF Willows
JOSEPH F. BOYLE Los Angeles
HENRY V. EASTMAN Tustin
JOHN T. SAIDY San Mateo
HELEN B. WEYRAUCH San Francisco
MALCOLM S. M. WATTS San Francisco

Advertisements — CALIFORNIA MEDICINE is published the first week of each month. Advertising copy must be received not later than the first of the month preceding issue. Advertising rates will be sent on request. Acceptance of advertising is contingent upon approval by the Advertising Committee.

SALES REPRESENTATIVES:

EAST:
UNITED MEDIA ASSOCIATES, INC.
16 BRUCE PARK AVE.
GREENWICH, CONN. 06830
TEL. (203) 661-9702

WEST:
MELVIN B. TYLER
693 SUTTER ST.
SAN FRANCISCO, CA. 94102
TEL. (415) 776-9400

Copyright, 1971, by the California Medical Association.

Subscription prices, \$8 (\$9 for foreign countries); student subscriptions \$4; single copies 80 cents.

Volumes begin with the first of January and the first of July. Subscriptions may commence at any time.

Change of Address — Requests for change of address should give both the old and new address, and should be made by county secretaries or by the member concerned.

Contributions of Scientific and Original Articles

Responsibilities for Statements and Conclusions in Original Articles — Authors are responsible for all statements, conclusions and methods of presenting their subjects. These may or may not be in harmony with the views of the editorial staff. It is aimed to permit authors to have as wide latitude as the general policy of the Journal and the demands on its space may permit. The right to reduce, revise or reject any manuscript is always reserved.

Exclusive Publication — Articles are accepted for publication on condition that they are contributed solely to this Journal. Ordinarily contributors will be notified within 60 days if a manuscript is accepted for publication. Every effort will be made to return unused manuscripts.

Length of Articles — Ordinarily articles should not exceed 3,000 words (approximately 5 printed pages). Under exceptional circumstances only will articles of over 4,000 words be published.

Manuscripts — Manuscripts should be typewritten, double spaced and the original typescript plus one copy submitted.

Illustrations — Ordinarily publication of 2 or 3 illustrations accompanying an article will be paid for by CALIFORNIA MEDICINE. Any number beyond this will have to be paid for by the author.

References — Should conform to the following order: name of author, title of article, name of periodical, with volume, inclusive pages, month, and year—i.e.: Lee GS: The heart rhythm following therapy with digitalis. Arch Int Med 44:554-562, Dec 1942. They should be listed in the order in which they are cited in the text and numbered in sequence.

Reprints — Reprints must be paid for by the author at established standard rates.

Contributions of "Letters to the Editor"

The Editorial Board will be glad to receive and consider for publication letters containing information of general interest to physicians throughout the State or presenting constructive criticisms on controversial issues of the day.

Management of Liver Injuries

INJURIES TO THE LIVER are almost twice as common today as a decade ago. Although they continue to result in high morbidity and mortality rates, particularly when they are associated with other organ injuries, there has been a dramatic increase in the salvage of patients sustaining either blunt or penetrating damage to the liver. This improved survival in recent years

is due primarily to an ever increasing awareness of the likelihood of liver injury in relation to the type of trauma, improvements in the general management of the severely traumatized patient, and appropriate and aggressive intraoperative techniques. The operation performed depends upon the extent of the liver injury and ranges from drainage alone to resective debridement combined with drainage and biliary decompression.

EARL F. WOLFMAN, JR., M.D.

REFERENCES

- Owens MP, Wolfman EF Jr, Chung GK: The management of liver trauma. Arch Surg 103:211-215, Aug 1971
Lucas EE, Walt AJ: Critical decisions in liver trauma: Experience based on 604 cases. Arch Surg 101:277-283, Aug 1970

ADVISORY PANEL, SECTION ON GENERAL SURGERY

MARSHALL J. ORLOFF, M.D., *Chairman*
San Diego
University of California, San Diego

ROBERT A. CHASE, M.D.
Stanford University School of Medicine

ROY COHN, M.D.
Stanford University School of Medicine

JOHN E. CONNOLLY, M.D.
University of California, Irvine
California College of Medicine
American College of Surgeons,
Southern California Chapter, President
CMA Scientific Board
CMA Section on General Surgery, Secretary

JEAN F. CRUM, M.D.
CMA Scientific Board (Ex-Officio)
Downey

J. E. DUNPHY, M.D.
University of California, San Francisco
School of Medicine

ALBERT D. HALL, M.D.
American College of Surgeons,
Northern California Chapter, President
CMA Section on General Surgery, Assistant Secretary
San Francisco

BERT L. HALTER, M.D.
CMA Scientific Board
San Francisco

DAVID B. HINSHAW, M.D.
Loma Linda University
School of Medicine

WILLIAM P. LONGMIRE, JR., M.D.
University of California, Los Angeles
School of Medicine

JAMES W. MARTIN, M.D.
CMA Scientific Board
Sacramento

VICTOR RICHARDS, M.D.
CMA Scientific Board
San Francisco

LEONARD ROSOFF, M.D.
University of Southern California
School of Medicine
Los Angeles

EARL F. WOLFMAN, JR., M.D.
University of California, Davis
School of Medicine

New CMA Officers and Representatives



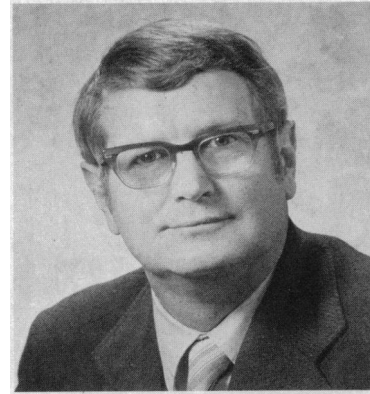
DR. CRUM

Dr. Jean F. Crum of Downey was installed as President of the California Medical Association at the annual meeting held February 12-16 in San Francisco, and Dr. Thomas N. Elmendorf of Willows was elected President-Elect by the House of Delegates.

Dr. Joseph F. Boyle, Los Angeles, was elected Speaker of the House, succeeding Dr. William F. Quinn, Los Angeles, who did not run for re-election. Dr. Quinn was voted into ex-officio membership of the House of Delegates in the newly-created position of Speaker Emeritus. Dr. Henry V. Eastman of Tustin was elected Vice-Speaker, succeeding Dr. Boyle.

Dr. Crum, who practices general and thoracic surgery, is a graduate of the University of Cincinnati's College of Medicine. He is a past president of the Los Angeles County Medical Association, an assistant clinical professor of surgery at the University of Southern California, a director of the American Cancer Society's California Division and an advisor to Regional Medical Programs' Area V.

Dr. Elmendorf, a general practitioner, is a graduate of Stanford University School of Medicine. He is an alternate delegate to the AMA, a member of the California Academy of General



DR. ELMENDORF

Practice, a past president of the Butte-Glenn Medical Society and is active in many Willows and Glenn County civic organizations.

Dr. Boyle, who earned his M.D. degree at Temple University, an internist, specializes in diseases of the chest. He is involved in scores of civic, medical and health organizations and is an associate clinical professor of medicine at the University of Southern California, a member of the State Air Resources Board, a delegate to the AMA, and chairman of CMA's Committee on Environmental Health.

Dr. Eastman, who is in general practice, lives in Santa Ana. He is a graduate of the University of Minnesota Medical School.

In other important elections, Doctors Simon C. Brumbaugh, Jr., Lemon Grove; Orrin S. Cook, Sacramento; William P. Frank, Alhambra; Carl Goetsch, Berkeley; Fred M. Kay, Fullerton; and Robert K. Salter, Stockton, were elected members of the CMA Council.

Doctors Walter H. Brignoli, St. Helena; Ralph W. Burnett, Bakersfield; and Crum were elected delegates to the American Medical Association. Doctors David S. Ardell, Bakersfield; Theodore F. Loring, Eureka; and Harold B. Miles, Santa Barbara, were elected alternate delegates.

STACEY'S**THE NATION'S LARGEST
MEDICAL BOOK CENTER**

Single Source Service
for Medical Books
from *all* Publishers

Orders by Mail or Phone Promptly Filled
Use your BankAmericard or MasterCharge

Stacey's

A Subsidiary of Bro-Dart Industries

581 MARKET STREET, SAN FRANCISCO, CALIF. 94105
(415) 421-4687

405 CALIFORNIA AVENUE, PALO ALTO, CALIF. 94306
(415) 362-0681

15255 EAST DON JULIAN ROAD
CITY OF INDUSTRY, CALIF. 91747
(213) 968-6411

BOOKS RECEIVED

Books received by CALIFORNIA MEDICINE are acknowledged in this column. Selections will be made for more extensive review in the interest of readers as space permits.

BECK'S OBSTETRICAL PRACTICE—Ninth Edition—E. Steward Taylor, M.D., Professor and Chairman, Department of Obstetrics and Gynecology, University of Colorado School of Medicine, Denver. The Williams & Wilkins Company, 428 E. Preston St., Baltimore (21202), 1971. 665 pages, \$19.75.

CHRISTIAAN BARNARD—One Life—Christiaan Barnard, M.D. and Curtis Bill Pepper. Bantam Books, 666 Fifth Avenue, New York City (10019), 1971. 529 pages, \$1.50 (Paperback).

KIDNEY AND URINARY TRACT INFECTIONS—Edited by Mitchell Kory, Ph.D., and S. O. Waife, M.D., Eli Lilly and Company, Indianapolis, In. (46206), 1971. 136 pages, available at no charge to interested medical students, house officers, and practicing clinicians.

LUMBAR DISC DISEASE—A Twenty-Year Clinical Follow-up Study—Edited by Blaine S. Nashold, Jr., M.D., Associate Professor of Neurosurgery, Department of Surgery, Duke University Medical Center, Durham, N.C.; and Zdenek Hrubec, Sc.D., Statistician, Follow-up Agency, Division of Medical Sciences, National Research Council, Washington, D.C. The C. V. Mosby Company, 11830 Westline Industrial Drive, St. Louis, Mo. (63141), 1971. 139 pages, \$16.50.

MEASURING MEDICAL EDUCATION—The Tests and Test Procedures of the National Board of Medical Examiners—John P. Hubbard, M.D., President, National Board of Medical Examiners, Professor Emeritus, University of Pennsylvania School of Medicine; with a chapter by Charles F. Schumacher, Ph.D., Associate Director, National Board of Medical Examiners. Lea & Febiger, Washington Square, Philadelphia (19106), 1971. 180 pages, \$8.50.

MODERN TREATMENT—Volume Eight, Number Three—Current Status: The Management and Treatment of Poisoning. Guest Editor: Jay M. Arena, M.D. Harper & Row, Medical Department, 49 East 33 Street, New York City (10016), 1971. 292 pages, Issued quarterly, by subscription, \$20.00 per year.

PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON NOSOCOMIAL INFECTIONS—Center for Disease Control, August 3-6, 1970—Sponsored by Center for Disease Control, Health Services and Mental Health Administration, Public Health Service, U.S. Department of Health, Education, and Welfare, Atlanta, Georgia, American Hospital Association, and American Public Health Association, Inc. Published by American Hospital Association, 840 North Lake Shore Drive, Chicago (60611), 1971. 334 pages, \$1.50.

PSORIASIS—Proceedings of the International Symposium, Stanford University, 1971—Edited by Eugene M. Farber, M.D., Professor of Dermatology, Stanford University; Alvin J. Cox, M.D., Professor of Pathology in Dermatology, Stanford University. Stanford University Press, Stanford, Ca. (94305), 1971. 478 pages, \$18.50.

SKI AT ANY AGE—Fitness Can Be Fun—Merritt H. Stiles, M.D.; and Robert D. O'Malley, M.D., Award House, Box 562, Farmingdale, Ny. (11735), 1971. 116 pages, \$5.95.

Gantrisin® (sulfisoxazole) Roche® provides your patients with many important advantages:

- high urinary levels
- generally good tolerance
- high solubility at average urinary pH
- rapid absorption
- rapid renal clearance
- high plasma concentrations
- economy (average cost of therapy: less than 6½¢ per tablet)

Before prescribing, please consult complete product information, a summary of which follows:

Indications: Acute, recurrent or chronic urinary tract infections (primarily cystitis, pyelitis, pyelonephritis) due to susceptible organisms (usually *E. coli*, *Klebsiella*, *Aerobacter*, *Staphylococcus aureus*, *Proteus mirabilis*, and, less frequently, *Proteus vulgaris*) in the absence of obstructive uropathy or foreign bodies.

IMPORTANT NOTE: *In vitro* sulfonamide sensitivity tests are not always reliable. The test must be carefully coordinated with bacteriologic and clinical response. When the patient is already taking sulfonamides, follow-up cultures should have aminobenzoic acid added to the culture media.

Currently, the increasing frequency of resistant organisms is a limitation of the usefulness of antibacterial agents including the sulfonamides, especially in the treatment of chronic and recurrent urinary tract infections.

Free sulfonamide blood levels should be measured in patients receiving sulfonamides for serious infections since there may be wide variations with identical doses; 20 mg/100 ml should be maximum total sulfonamide level, as adverse reactions occur more frequently above this level.

Contraindications: Hypersensitivity to sulfonamides, infants less than 2 months of age (except adjunctively with pyrimethamine in congenital toxoplasmosis), pregnancy at term, and during the nursing period.

Warnings: Safety of sulfonamides in pregnancy has not been established. Sulfonamides will not eradicate group A streptococci. Deaths associated with sulfonamide administration have been reported from hypersensitivity reactions, agranulocytosis, aplastic anemia and other blood dyscrasias. Clinical signs such as sore throat, fever, pallor, purpura or jaundice may be early indications of serious blood disorders. Complete blood counts and urinalyses with careful microscopic examination should be performed frequently during sulfonamide therapy.

Precautions: Use with caution when impaired renal or hepatic function, severe allergy or bronchial asthma is present. In glucose-6-phosphate dehydrogenase-deficient individuals, hemolysis (frequently a dose-related reaction) may occur. Maintain adequate fluid intake to prevent crystalluria and stone formation.

Adverse Reactions: *Blood dyscrasias:* Agranulocytosis, aplastic anemia, thrombocytopenia, leukopenia, hemolytic anemia, purpura, hypoprothrombinemia, methemoglobinemia. *Allergic reactions:* Erythema multiforme (Stevens-Johnson syndrome), generalized skin eruptions, epidermal necrolysis, urticaria, serum sickness, pruritus, exfoliative dermatitis, anaphylactoid reactions, periorbital edema, conjunctival and scleral injection, photosensitization, arthralgia, allergic myocarditis. *Gastrointestinal reactions:* Nausea, emesis, abdominal pains, hepatitis, diarrhea, anorexia, pancreatitis, stomatitis. *C.N.S. reactions:* Headache, peripheral neuritis, mental depression, convulsions, ataxia, hallucinations, tinnitus, vertigo, insomnia. *Miscellaneous reactions:* Drug fever, chills, toxic nephrosis with oliguria and anuria. Periarthritis nodosa and L.E. phenomenon have occurred with sulfonamide therapy. Sulfonamides bear certain chemical similarities to some goitrogens, diuretics and oral hypoglycemic agents. Goiter production, diuresis and hypoglycemia have occurred rarely in patients receiving sulfonamides. Cross-sensitivity may exist with these agents.

Supply: Tablets containing 0.5 Gm sulfisoxazole.

